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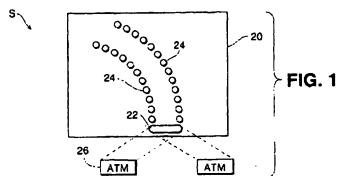
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### (54) Personnel location control system with informational control message presentation

(57) A personnel placement and location control system for controlling movement of one or more individuals to a particular designation. In a preferred embodiment, the location control system functions as a personnel guidance and location control system for controlling and guiding one or more individuals in a selected path to a waiting point and then to an activity in advance of that waiting point or otherwise to a particular destination. The system relies upon a plurality of indicators or markers which may be secured to a floor or ground surface or which may be formed on or secured to floor coverings on that floor surface and which define guide paths for the one or more individuals. Various floor covering segments can be also secured in desired combinations to achieve a desired guide path. In one

embodiment, a pocket forming section is provided in the floor covering for receiving a substrate containing informational material. This material may be in the nature of instructional material or otherwise promotional or advertising material. The information receiving substrate section is capable of receiving individual substrates bearing such information in a manner in which they can be readily introduced or removed from the floor covering material. Moreover, these information bearing substrates can be a series of advertisements in a pathway or, otherwise, they can identify places or locations for one or more individuals to stand for either waiting to advance to an activity or otherwise to stand at that activity.



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## BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

[0001] This invention relates to certain new and useful improvements in personnel waiting guidance, placement and location control systems for guiding individuals in a controlled manner and also for providing floor located informational material to one or more individuals while in that pathway or otherwise at a particular place for an activity.

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#### 2. Brief Description of the Related Art

[0002] Personnel guidance and location control systems have been used in a variety of activities for controlling a path of movement for one or more individuals to a particular activity. These guidance and location control systems usually rely upon a group of poles with guide ropes to guide a group of individuals into a standing line, where each of the individuals in that line advance progressively toward a particular activity as, for example, a teller in a bank or otherwise to a ticket counter in an airline terminal, etc.

[0003] There have also been personnel guidance and location control systems which rely upon painted lines on a floor or ground surface to define a guidance path to a particular activity.

[0004] Each of these commercially available guidance and location control systems suffer from a number of drawbacks which limit their effectiveness. In the case of the poles and flexible ropes or cables, the individual components are loosely mounted on a floor surface and are subject to vandalism and theft. Secondly, they can be readily moved by the individuals for either enhancing the position of such individuals in a line of waiting individuals, or because of sheer nuisance purposes.

[0005] It has been recognized that whil waiting in a line of individuals or in a guide path to reach a particular activity, the people standing are particularly amenable to reading or observing material which will at least occupy a portion of the time while waiting to reach orachieve a particular activity. There has been no commercially available or even proposed system which provides for the interchangeability of informational bearing substrates in a floor covering and which allows for an occupant in that pathway or at a particular location to observe that material. Moreover, it is important to constantly change that material, as, for example, from day to day, so that the user of the guidance and location control system will not become bored by a single message which seemingly never changes.

[0006] There have been individual placemats or, for that matter, floor coverings which bear information as, for example, placemats at soft drink dispensers identifying the location for obtaining a soft drink or otherwise

containing promotional or advertising material. As a simple example, a particular placemat or floor covering in front of a drink dispenser could read "Drink Crush Cola". However, in all such cases, the information bearing material is permanently provided.

#### BRIEF SUMMARY OF THE INVENTION

[0007] When a user of the system desires to set up its own guidance location and control system, the user would select the desired patterns, such that the user could assemble the ground cover substrates in a desired arrangement to obtain that pathway desired by the user.

[8000] The informational material which is incorporated in the ground covering substrates may adopt a variety of forms. Thus, for example, the informational material may be advertising or promotional material. With respect to this material, it is important to frequently change this material, so as to avoid boredom to those pedestrians who will frequently use a particular locational control system. In addition, the informational material may adopt a form of information to users in various institutions about which activities are occurring in a particular line. As an example, in a post office, the informational message in the substrate can be changed periodically so as to represent for one day, an express mail line, and on another day, a purchase postage only line, etc. It is not necessary to change the substrate, but merely the informational material carried thereby.

[0009] It is also possible to use a single individual substrate which does not identify a pathway. With the informational substrate, this is highly effective for promoting particular articles. For example, a mat may be located at a drink dispenser, and on one day, the mat may contain a message about a particular manufacturer's soft drink, and on another day, it may contain another message about another manufacturer's soft drink.

[0010] The informational display may be inserted into a pocket formed in a substrate, having a closable, transparent upper flap. Moreover, the substrate may be provided with a depression therein in order to receive the informational bearing material, and which is again covered by a transparent outer sheet. Further, foam material can be incorporated in the region of the informational bearing substrate so as to highlight the particular message contained thereon. In addition, it is possible to provide electrical lights to further enhance an informational bearing material.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0011] Having thus described the invention in general terms, reference will now be made to the accompanying drawings in which:

Figure 1 is a top plan view showing one embodiment of the personnel waiting guidance and control

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system constructed in accordance with and embodying the present invention;

Figure 2 is a fragmentary side elevational view, partially in section, of the elongate element mounted on a substrate and forming part of the control system of the present invention;

Figure 3 is a side elevational view of one form of discrete small guide path defining element forming part of the personnel control system of the present invention;

Figure 4 is a top plan view of the one form of the elongate end of the line element forming part of the personnel system of the present invention;

Figure 5 is a fragmentary side elevational view of one form of ground cover substrate forming part of a personnel guidance and location control system of the present invention;

Figure 6 is a top plan view of one form of ground cover substrate forming part of the personnel guidance and location control system of the present 20 invention:

Figure 7 is a fragmentary sectional view showing another embodiment of a ground cover substrate forming part of the personnel control system of the present invention:

Figure 8 is a composite of individual ground cover substrates in modular form which can be arranged in a desired combination to form a guidance and location control system in accordance with the present invention;

Figure 9 is a side elevational view showing an arrangement of ground cover substrates connected together;

Figure 10 is a fragmentary side elevational view showing one means for securing ground cover substrates to a carpeted ground surface;

Figure 11 is a fragmentary side elevational view showing another means for securing ground cover substrates to a hard ground surface;

Figure 12 is a fragmentary plan view of another modified form of ground cover substrates, which can be releasably connected together;

Figure 13 is a fragmentary plan view similar to Figure 12 and showing still other forms of ground cover substrates which can be connected together;

Figure 14 is a plan view showing another modified form of guidance and message presenting system in which components thereof were not necessarily connected together;

Figure 15 is a fragmentary plan view showing still a further modified form of location control system in accordance with the present invention and which uses position indicating electric lights;

Figure 16 is a fragmentary vertical sectional view showing one form of presenting a message in a 55 ground cover substrate;

Figure 17 is a fragmentary vertical sectional view similar to Figure 16, and showing another means

for presenting a message in a ground cover substrate:

Figure 18 is a fragmentary plan view showing a single position location control system providing an informational message in accordance with the present invention;

Figure 19 is a top plan view of a modified form of personnel control system also presenting changeable messages thereon;

Figure 20 is a fragmentary vertical sectional view of still a further modified form of presenting messages in a ground cover substrate;

Figure 21 is a fragmentary vertical sectional view showing a modified form of providing an informational message to an upper surface of a ground covering substrate;

Figure 22 is a fragmentary vertical sectional view, similar to Figure 21, and showing a slightly modified form of presenting the informational messages on the upper surface of a substrate;

Figure 23 is an exploded fragmentary vertical sectional view showing components forming part of a modified system for presenting an informational message in a ground covering substrate; and

Figure 24 is a fragmentary vertical sectional view, similar to Figure 23, and showing the components of Figure 23 in an assembled form.

# DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

[0012] Referring now in more detail and by reference characters to the drawings which illustrate a preferred embodiment of the present invention, S designates a personnel guidance and control system comprised primarily of a ground cover substrate 20, as hereinafter described in more detail. Mounted in the substrate 20 is an elongate element or member and referred to as a "head of the line" member 22 and a group of small discrete path defining members 24.

[0013] The elongate element 22 and the path defining discrete elements 24 are preferably located on the ground cover substrate 20 in a particular arrangement to define a path of movement of a group of individuals in a waiting area so that each of the individuals may then advance to a selected activity.

[0014] In accordance with the present invention, and merely for the purposes of illustrating the present invention, the personnel waiting guidance and control system shows the location of the entire substrate 20 including the elongate element 22 and the small discrete elements 24 forming a waiting line to one or more automated teller machines 26.

[0015] The elongate element 22 may have imprinted on its upper surface, or otherwise applied to the upper surface, certain indicia 28 thereon for providing instructions to the group of individuals. As a simple example, the indicia 28 on the elongate element 22 may read

"Wait Here" or "Next", or other similar words which define a location in which individuals at the head of a line are requested to wait.

[0016] In the embodiment of the invention as illustrated, the elongate element 22 has somewhat of an inverted dish-shaped construction and is formed on its underside with an angular downwardly facing rim 30 and a recessed bottom wall 32. This construction renders a light weight elongate element 22 without materially affecting its structural properties. Moreover, the recessed bottom wall also, in certain embodiments, allows for a convenient stacking and nesting of the elongate elements for purposes of shipping and storage.

[0017] Figure 2 further illustrates the elongate element 22 mounted within a substrate such as the substrate 20. In this particular case, the substrate is illustrated as being formed of carpeting material. However, and as indicated, any material form can be used for this purpose.

[0018] The small discrete elements 24 forming part of the personnel guidance and control system of the invention are circular in shape, as shown in the top plan view thereof. Moreover, each of the small discrete elements 24 have recessed bottom walls, such that they form an annular downward facing rim 34 and a recessed bottom 36, all in the manner as best illustrated in Figure 6 of the drawings.

[0019] In one embodiment of the present invention, the elongate element 22 is provided with a plurality (a pair as shown) of spaced apart screws 40 which may be inserted into a ground cover substrate, such as a carpeted ground cover substrate. Moreover, these screws 40 allow for fastening fitting within a carpet for retentive securement thereto. In this case, the screws have a fairly coarse thread 42 thereon such that the threads only allow a minimal number of turns of the screw. In this way, where the screws are used for securing the elongate element 22 to a carpet-like fabric material, they will not tear the material and only engage the pile of the carpet or rug.

[0020] It is also possible to secure the small discrete elements to a ground cover substrate, as for example, by means of an adhesive securement or otherwise by means of screws, such as the screws 44.

[0021] The small discrete path defining elements 24 may have an adhesive strip 46 on the downwardly presented rim thereof. Moreover, the adhesive strip 46 may be covered with a releasable and removable protective backing, if desired. In accordance with this construction, the removable backing strip can be removed for allowing the adhesive strip to become secured to a ground cover substrate.

[0022] It should be understood that the elongate element 22 could also be provided with adhesive strips on its downwardly facing rim 30. Thus, and in this way, the elongate element can be secured to a ground cover substrate much in the same manner as the small discrete elements.

[0023] As indicated previously, the present invention utilizes a ground cover substrate which is disposed on a ground surface. The ground surface may be any form, such as a ground soil surface, or otherwise it may be a manufactured surface, such as a wooden surface, a vinyl tile or ceramic tile surface or, for that matter, a wood surface. With hard covered surfaces, the ground cover substrate is frequently provided with an adhesive means and preferably a releasable adhesive means so that the ground cover substrate can be removed from the ground surface. In the case of a carpeted or rug surface, the ground cover substrate may be secured through improved carpet strips in manner as hereinafter described.

[0024] Figure 5 shows an embodiment of the invention in which there is an elongate element 22, such as a head of a line element, and a plurality of discrete pathdefining elements 24 starting from opposite sides of the elongate element defining a path, much in the manner as shown in Figure 1 and, for that matter, in Figure 6. The ground cover substrate in this embodiment may adopt the form of either a relatively rigid material, such as a vinyl tile material or the like, or it may adopt the form of a fabric material, such as a carpet. Figure 5 illustrates a ground cover material 46, such as a relatively rigid type material, e.g. a vinyl ground covering material, having an adhesive surface 48 on its underside. The adhesive is covered by a releasable backing 50, such that when the backing 50 is removed, the adhesive 48 can be secured to a ground surface as, for example, another manufactured and rigid surface.

[0025] Figure 6 illustrates an embodiment of the invention in which there is a ground cover substrate 46 having the elongate head of the line element 22 and the individual discrete path-defining elements 24. In this particular case, the path-defining elements are located at each of the sides of the ground cover substrate 46 to form an individual pathway 48.

[0026] In the embodiments of the invention as shown in Figures 5 and 6, the elongate element 22 and the individual discrete elements 24 may be integrally formed in the ground cover substrate 46 in any of a variety of fashions. As indicated previously, the elongate element 22 and the discrete path-forming elements 24 may be woven into a carpet ground cover substrate. Otherwise, if the ground cover substrate is relatively hard material, such as a vinyl, they can be pre-printed onto the vinyl. Further, they can be painted onto the ground cover substrate, or otherwise applied.

[0027] Further, in the embodiment as shown in Figure 6, there is an informational presentation 52, which in this case is a type of advertising or promotional material. The exact form in which this informational presentation is made in the substrate 46 is hereinafter described in more detail. However, the entire message presentation is set forth in one substrate.

[0028] Figure 7 illustrates an embodiment of the invention in which there is a carpet material ground

cover substrate 60. The carpet substrate 60 is provided with a plurality of openings 62 for the individual discrete elements and an enlarged opening 64 for the elongate element 22. In this particular case, a plug 66 having the size of an elongate element, but of a different color than the carpet 60, is inserted in the enlarged opening 64. In each of the other openings 62 there are provided plugs 68 representing the small discrete path-defining elements.

[0029] In another embodiment of the invention, modular ground cover substrates 70 could be provided, as shown in Figure 8. There is a first substrate 70a which has an elongate element 22 formed on the surface thereof or incorporated in the material thereof. A second carpet substrate 70b has a plurality of small discrete elements 24 located in somewhat of an arcuate path and thereafter leading into a straight or linear path. In this way, by combining the substrates 70a and 70b, one could form the start of a personnel guidance path which then has an arcuate turn in approximately a 90° direction. By adding a further substrate 70c, which also provides an arcuate turn in an opposite direction, one could further revise the guidance path. By adding a further substrate 70d, which also has elongate columns of small discrete elements, a linear path-defining portion would be added to the arcuate path of the substrate 70b.

[0030] In the embodiment of the invention as shown in Figure 8, a portion of an informational message is set forth in the first ground covering substrate 70a, and a remaining portion of that message is set forth in the ground covering substrate 70b. In this way, when the two substrates are abutted or otherwise connected together, they will form a complete informational message. Thus, and in the embodiment as shown, a word message can be set forth in one substrate and a pictorial message can be set forth in another abutting or adjacent substrate.

[0031] In the case where the ground cover substrates are formed of a carpeted material, the ground cover substrates, such as substrates 80 and 82, may be secured to another carpeted ground surface by means of specially designed carpet strips 84, as shown in Figure 10. Each carpet strip 84 comprises a small flat metal substrate 86 which has nails or similar pointed prongs 88 on the upper surface for insertion into the carpet substrates 80 and 82 and nails 90 on the undersurface for insertion into the carpeted ground surface 92. In this way, the strips 84 hold the two ground cover substrates 80 and 82 in an abutted position on a carpeted ground surface 92.

[0032] Figure 11 illustrates an embodiment where two relatively rigid ground cover substrates 94 and 96 are abutted against one another to form a desired pattern on the upper surface. These two ground cover substrates 94 and 96 are, in turn, secured to a relatively rigid ground cover, such as a ceramic tile surface 98, by means of fastener strips 100. In this case, the fastener

strips 100 also may have a metal substrate or other hard substrate 102, along with adhesive surfaces 104 on the upper portion thereof and adhesive surfaces 106 for securement to the ground surface 98.

[0033] It should be recognized that indicia could be incorporated on the small discrete path-forming elements, such as the elongate element. For example, arrows could be formed on one or more of the small discrete path-defining elements.

[0034] It is also possible to provide interlocking means for releasably connecting each of the substrate sections together in a desired guide forming path. Figure 12 illustrates one such interlocking arrangement 110 on a pair of linearly located substrate sections 112 and 114, which each have small discrete guide path forming elements 116 and 118 on their upper surfaces. In this particular case it can be observed that the interlocking arrangement 110 comprises teeth 120 on one of the substrate sections and mating interlocking teeth 122 on the other of the substrate sections 114.

[0035] It is also possible to provide substrate sections which are not necessarily linear, as shown in Figure 13. For example, Figure 13 shows a substrate section 112, similar to that previously described, and an arcuately shaped substrate section 128, also having small discrete path forming elements 130 on its upper surface. Other shapes of substrate sections could also be employed, such as the U-shaped substrate section 128 illustrated in Figure 15, and which also has the small discrete path forming elements 130 on its upper surface.

[0036] In the embodiment of the invention as shown in Figure 13, there is also a modified form of interconnecting means which includes a somewhat serrated edge 132 on the arcuate substrate section 124 and a mating and corresponding serrated edge 134 on the generally linear substrate section 112. It should be understood that any form of interlocking means could be used.

[0037] It is not always necessary to actually physically abut the individual substrate sections forming a guide path or to interlock same. For example, the individual pieces forming a guide path could also be used in a spaced apart relationship with sizes, shapes and locations which identify a particular guide path. For example, with a group of individuals who are to be processed as, for example, by having photographs taken, a linear substrate section 140 may be provided with the discrete path forming elements 142 on each of the opposite edges thereof. This linear section 140 thereby defines a particular guide path for a group of individuals.

[0038] In place of having a head of line position, an individual arcuate section 144 is spaced from the right-hand end of the linear substrate section 140, as shown in Figure 14. This arcuate section could represent, for example, a next in line position to reach a destination 146. The arcuate section could be replaced by an arrow or the like, as well. The destination 146 is the activity reached by the party at the very head of the line to have

the activity occur. Thus, for motor vehicle registration, where photographs are employed, the destination 146 may be a specified area of substrate section and may even have an imprint of shoes 148 on its upper surface to identify a location where that individual would stand during the taking of a photograph.

[0039] Figure 15 illustrates an embodiment of the invention utilizing a pair of substrate sections 150 and 152 which, in this particular embodiment, are as linear substrate sections. However, they may be arcuate substrate sections, U-shaped sections, or any other shape of substrate section. Furthermore, and in this embodiment, the individual path forming elements are rows of light emitting diodes 154 and 156 adjacent the longitudinal edges thereof. In this respect, the light emitting diodes function as the small discrete path forming elements previously described.

[0040] In order to provide electrical current to these light emitting diodes, and particularly where the substrate sections 150 and 152 are carpet sections, electrical conductors 158 can be extended through the individual carpet sections, as shown. These electrical conductors would be connected to the individual light emitting diodes by branches (not shown). Moreover, in order to connect the abutting or interlocking ends of each of the substrate sections 150 and 152, one of the substrate sections is provided with an outwardly struck tab or prong 160 adapted to fit within a socket 162 formed in a conductor 158, in the manner as best shown in Figure 17. It should be understood that any other type of electrical light pattern could also be employed using the electrical conductors as shown in the substrate sections of Figure 15.

[0041] Figure 16 illustrates a substrate 170 with a transparent plastic cover piece 172 fixedly secured to an upper surface thereof, and forming a pocket 174 for receiving an informational material substrate 176. The pocket-forming cover piece 172 is also provided with an open end covered by a flap 178, thereby allowing separation of the flap 178 from the substrate 170 in order to obtain access to the pocket 174. In this way, the informational bearing substrate 176 can be removed and a new sheet inserted in its place.

[0042] Figure 17 illustrates a modified form of display presentation section 180 on a ground covering substrate section 182. This display section 180 includes an outer cover strip 184 forming a pocket 186 between the under surface of the cover strip 184, and the substrate section 182. A sponge foam like material plug 188 is located in the pocket 186, and provides somewhat of a pillow-type effect the display section 180. Thus, this display section 180 is raised relative to the remaining portion of the ground covering substrate 182.

[0043] Imprinted on the upper surface of the display section 180 in the region above the sponge foam core 188 is printed information material 190. Moreover, this information bearing material 190 may be embossed on the upper surface, and raised slightly with respect to the

upper surface to thereby enhance the appearance of the message. In this particular case, the cover sheet 184 can be removed and replaced without necessarily requiring complete removal of the entire substrate section 182

[0044] Figure 18 illustrates an embodiment in which there is a substrate section 192, located at a dispenser 194, such as a dispenser of soft drinks. In this case, mounted within a recess formed in the substrate section 192, is an information bearing substrate 196, which may contain a message 198 on the upper surface thereof. In this particular case, the substrate section can say "Dispense Mountain Cola Here" on one day, and on another day, the "Mountain" portion could be removed, and another brand name producer of a cola could be inserted in its place.

[0045] Figure 19 illustrates an embodiment of an invention in which there is a single floor mat 200 in front of an entrance door 202, and an exit door 204 leading into, e.g., a hotel lobby or the like. If it is desired to change the entrance and exit arrangements, an entrance sign 206 along with a illustration of a pair of feet 208 can be removed from the mat 200. The same holds true with an exit sign 210 and a pair of feet 212, pointed in the opposite direction showing an exit from this hotel or lobby or other location. Thus, merely by removing the individual sections, it is possible to change the directions of exit and entry, or otherwise, it is possible to put signs "No Admission", etc.

[0046] Figure 20 further illustrates an embodiment of the invention, in which there is a floor covering substrate section 220 covered by a transparent cover piece 222. The ground cover substrate section 220 is provided with a depression forming a recess 224 to receive an information bearing sheet 226, and which has information on its upper surface. The cover sheet 222 is removable as, for example, by means of fiber fastening attachment strips, and re-securable to the upper surface of the substrate section 220, thereby allowing interchangeability of information sheets 226.

[0047] It should also be recognized that it is possible to use a flat screen display. For example, returning to Figure 20, the information bearing sheet 226 could easily be replaced by a plasma-operated screen. In this particular case, the cover section 222 would be formed of a rigid material so that one walking on the substrate section 220 would not damage the flat panel display screen 226.

[0048] Figure 21 illustrates an embodiment of the invention in which there is a ground covering substrate 240, typically in the form of a rubber or vinyl plastic material, and having a plurality of upstanding ribs 242 on its upper surface. In order to present an informational display, recesses 244 formed between each of the ribs are sized to receive an adhesive strip 246 and which is provided with an adhesive, both on its lower surface and on its upper surface, so as to be able to stick to the substrate 240 and to hold an informational message bear-

ing section 248.

[0049] Figure 22 discloses an arrangement similar to Figure 21, except that in this particular case, the adhesive 246 extends for the full dimension between each of the ribs 242, whereas in the original embodiment of Figure 21, the adhesive strips 246 extended only a portion of the distance between the ribs 242. In like manner, in connection with the embodiment of Figure 22, the informational bearing section 248 also extends the full distance between each of the ribs. Moreover, the informational bearing section 248 can be flush with the upper surface of the ribs, or it can be below the surface of the upper edge of the ribs 242.

[0050] Figure 23 illustrates an embodiment of the invention in which larger informational bearing sub- 15 strates 250 can be used. A ground covering substrate 252 is provided and is formed with a recess 254 on its underside having an upper opening 256. The informational message bearing section 250 has a message 258 on its upper surface. It can be seen by reference to Figure 23 that this section 250 fits within the recess 254. Moreover, the message 258 is exposed for viewing through the viewing opening 256 formed in the substrate 252. In order to provide a raised effect to the message 258, an insert piece 260 is also provided and 25 forces the upper surface of the information bearing section 250 upwardly so that the message 258 actually lies above the upper surface of the ground covering substrate 252. Moreover, the bottom surface of the insert piece 260 will thereupon lie flush with the underside of the information bearing section 250.

[0051] It is also possible to use enhancements to the small discrete elements. Thus, in order to enhance a promotional add for a soft drink, one could use bottle cap designs as the small discrete elements. In like manner, in order to enhance an advertisement of, e.g. cookies, the small discrete elements could be designed as a cookie.

#### Claims

Having thus described the invention, what I desire to claim and secure by letters patent is:

- A personnel guidance and location control system
  for guiding a group of pedestrian individuals into a
  line thereof and controlling movement thereof, said
  guidance and location control system comprising:
  - a) a ground cover substrate for disposition on a 50 ground surface;
  - b) at least one elongate element associated with said cover substrate and in a fixed location thereon for defining an end of a line of the group of pedestrian individuals and representing a waiting location for the individual at the front end of the line, so that the individuals may proceed to a destination in advance of the front

end of the line in an orderly and successive manner;

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- c) a plurality of small discrete elements associated with said cover substrate in fixed locations thereon relative to the elongate element and extending from the elongate element to define a pathway of movement for the group of individuals; and
- d) means associated with said elongate element and said small discrete elements for securing same with the cover substrate, whereby the ground cover substrate and elongate element and small discrete elements can be secured to the ground surface presenting a desired pattern to enable the orderly and controlled movement of a group of pedestrian individuals into one or more lines of same to a destination.
- The personnel guidance and location control system of Claim 1 further characterized in that said small discrete elements extend from regions in proximity to opposite ends of the elongate element.
- The personnel guidance and location control system of Claim 1 further characterized in that indicia is provided on the upper surface of the elongate element.
- 30 4. The personnel guidance and location control system of Claim 1 further characterized in that fastening means associated with the underside of the elongate element and with the underside of the small discrete elements and comprises a downwardly projecting threaded member.
  - The personnel guidance and location control system of Claim 1 further characterized in that fastening means associated with the underside of the elongate element and the small discrete elements and is an adhesive strip.
  - 6. A system for controlling movement of pedestrian personnel and presenting informational messages in connection therewith, said system comprising:
    - a) a ground cover substrate for disposition on a ground surface;
    - b) at least one element associated with said ground cover substrate for representing a standing or waiting position for a pedestrian individual and in which an activity may take place; and
    - c) first informational message located on said substrate in such manner that it is relatively interchangeable at will so that a second informational substrate may be readily and quickly interchanged on said substrate for said first

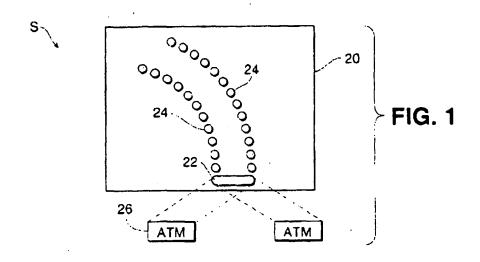
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informational message.

- 7. The system of Claim 6 further characterized in that said first information message is located under a relatively transparent cover member secured to 5 said substrate with a pocket allowing access to said first informational message for removing same and inserting same.
- said informational message has a raised portion which extends above the surface of said substrate.
- 9. The system of Claim 6 further characterized in that said informational message shows direction of 15 movement of one or more pedestrian individuals.
- 10. The system of Claim 6 further characterized in that said informational message identifies a particular standing location for an individual in which an activ- 20 ity is to be conducted.
- 11. The system of Claim 6 further characterized in that a foam portion is located with respect to said substrate in order to provide a raised effect to the infor- 25 mational message.
- 12. The system of Claim 6 further characterized in that said informational message is mounted within a recessed portion in said substrate and is removable 30 therefrom.
- 13. A method for a personnel location and control system for guiding a group of individuals and also presenting informational message to said pedestrian 35 individuals, said method comprising:
  - a) a ground cover substrate for disposition on a ground surface;
  - b) a group elements associated with said ground cover substrate to define a pathway for guiding the movement of the pedestrian individuals; and
  - c) means for presenting a message on an upper surface of said substrate in such manner 45 that the message is removable therefrom and replaceable by another message.
- 14. The system of Claim 13 further characterized in that there is a plurality of small discrete elements 50 defining a pathway of movement for the pedestrian individuals and an elongate element defining an end of the line position for a person at the head of the line of pedestrian individuals.
- 15. The system of Claim 13 further characterized in that said first information message is located under a relatively transparent cover member secured to

said substrate with a pocket allowing access to said first informational message for removing same and inserting same.

- 16. The system of Claim 13 further characterized in that said informational message has a raised portion which extends above the surface of said substrate.
- 8. The system of Claim 6 further characterized in that 10 17. The system of Claim 13 further characterized in that said informational message shows direction of movement of one or more pedestrian individuals.
  - 18. The system of Claim 13 further characterized in that said informational message identifies a particular standing location for an individual in which an activity is to be conducted.
  - 19. A method of controlling the locational movement of one or more pedestrian individuals and simultaneously providing an informational message to said one or more pedestrian individuals, said method comprising:
    - a) providing a substrate to a ground surface and having an upper surface thereon for walking disposition by said one or more pedestrian individuals;
    - b) providing one or more elements on said upper surface of said substrate to represent a location for said one or more pedestrian individuals in which a particular activity may occur; c) locating an informational message on said substrate in a position where the same is readily visible to and viewable by the one or more pedestrian individuals; and
    - d) changing that informational message and substituting another informational message therefor.



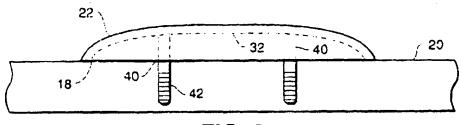
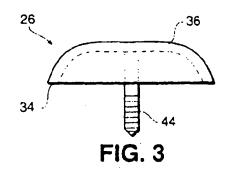
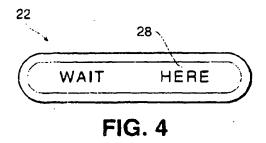
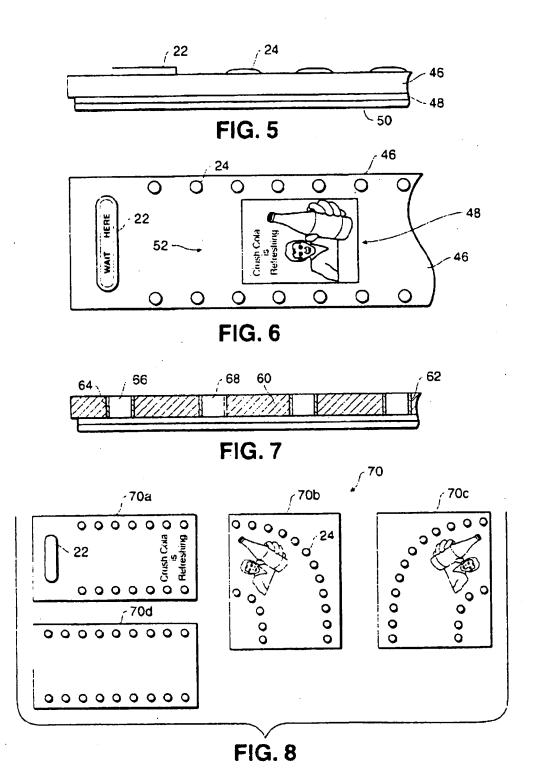


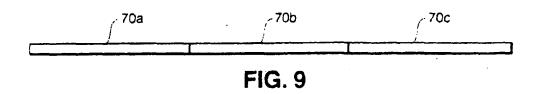
FIG. 2

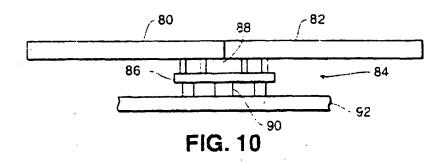


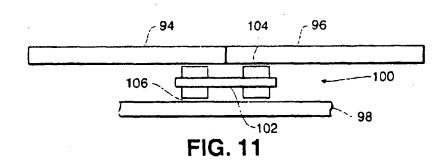


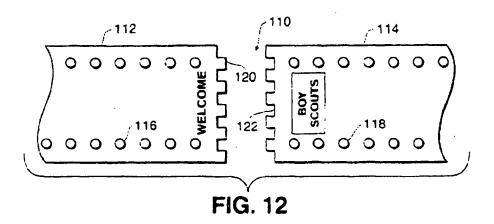


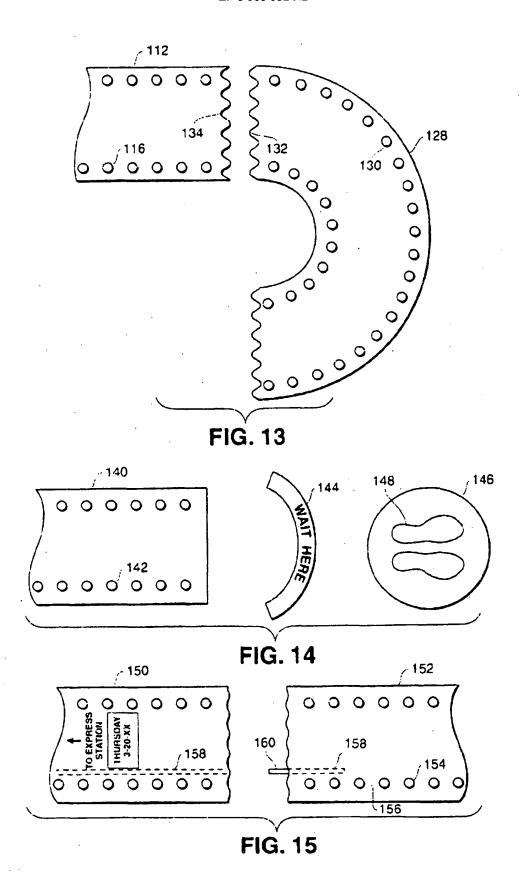
10

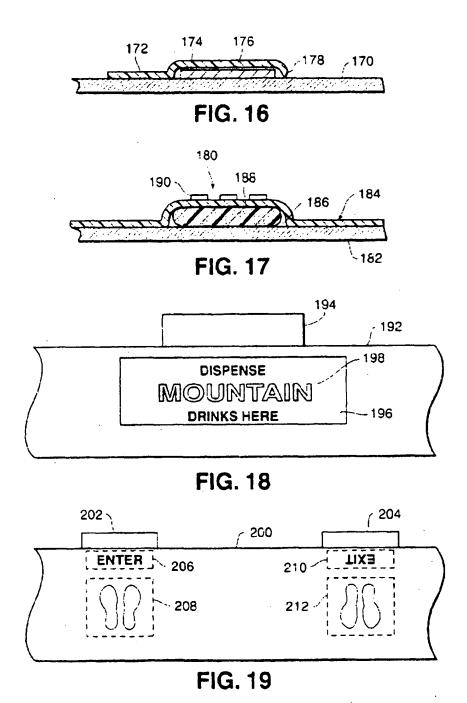












226 222 220 FIG. 20 224

